

FIG. 1

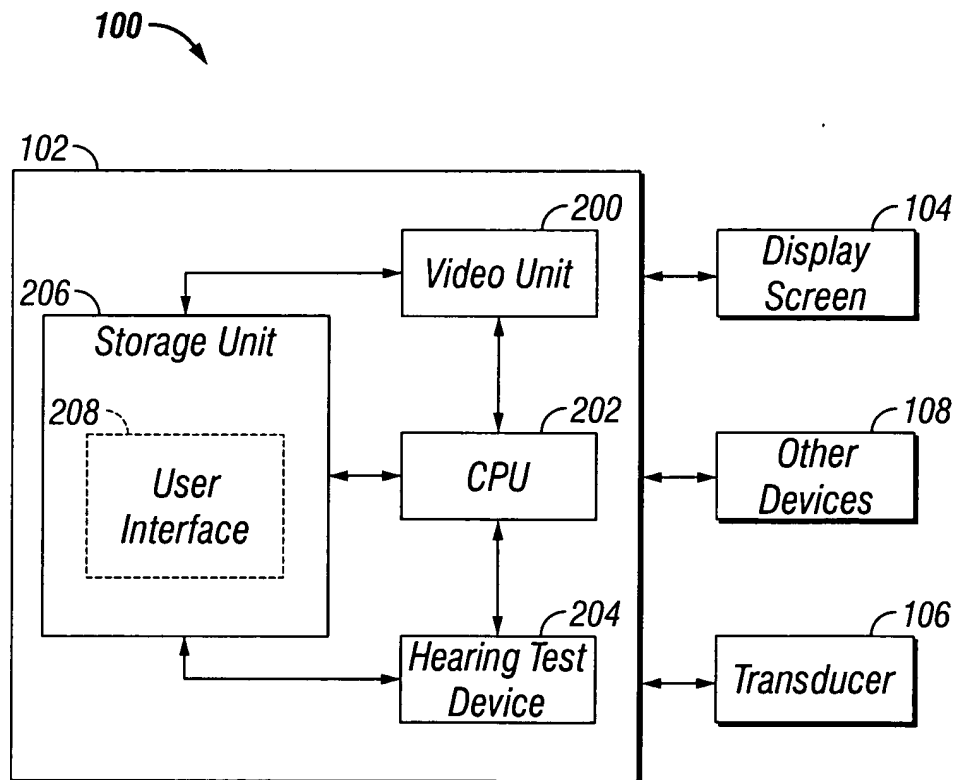
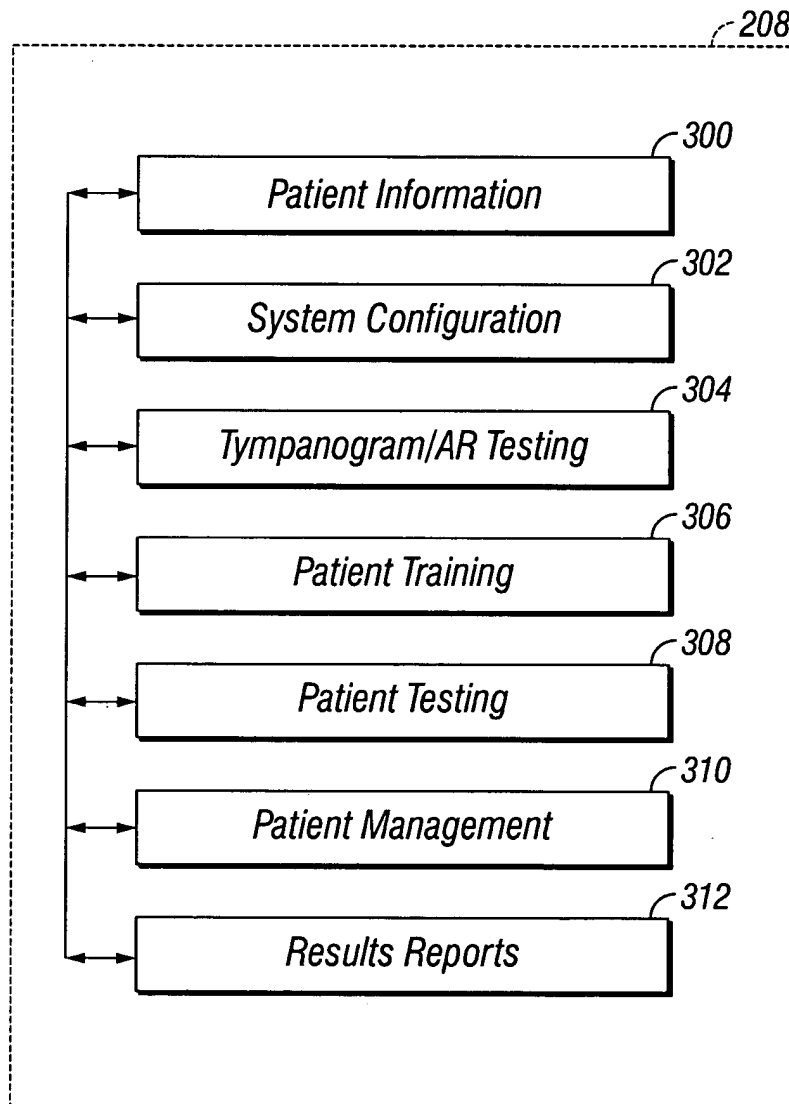


FIG. 2



**FIG. 3**

400

Otogram

New Session

Testing Language:  406

Chart Number:  402

Patient Name:  404

View Reports 410

Advanced Options 412

Turn Off 414

Reconfigure 416

408

- ☒ Tympanogram
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception
- ☐ Speech Discrim
- ☐ Patient Survey

FIG. 4

500

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Doctors: 504

Administrators: 506

Dr. Smith

Jane Doe

Optional Input Fields

Doctor's Name	<input checked="" type="checkbox"/> Displayed	<input type="checkbox"/> Required
Clinic's Name	<input checked="" type="checkbox"/> Displayed	<input checked="" type="checkbox"/> Required
Date of Birth	<input type="checkbox"/> Displayed	<input type="checkbox"/> Required
Sex	<input type="checkbox"/> Displayed	<input type="checkbox"/> Required
Test Administrator	<input checked="" type="checkbox"/> Displayed	<input checked="" type="checkbox"/> Required

512

514

502

Add Up Down Remove Add Up Down Remove

Clinic: Southwest ENT 508

Chart# Default 510

Save Exit

FIG. 5A

520

**Otoqram Configuration**

Input Screen | **Paging Encoder Interface** | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

☒ **522** Paging Encoder is Attached

524 {

Communications Port: 1

Encoder ID: WaveWare Paging Encoder

Encoder Timeout: 500

Pager CapCode: 0000100

Pager Data Rate: 5

Save Exit

FIG. 5B

530

**Otoqram Configuration**

Input Screen | **Paging Encoder Interface** | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

532 ☒ Page Administrator at end of testing session

534 ☐ Page Administrator at end of each test

536 ☒ Page Administrator after inactivity threshold

538 ☒ Page Administrator after inability to reach pure tone threshold

Page Format [%N-Patent Name, %T-Test Name.]

%N's Otoqram is completed.

%N has completed the %T test.

%N is not progressing through the %T test.

Inactivity Threshold (in seconds): 120

%N is not progressing through the %T test.

Inability Threshold (in seconds): 360

539 {

540

Paging Device: Radio

Network Paging Drop:

Save and Exit Exit

FIG. 5C

544

Otoqram Configuration							
Input Screen	Paging Encoder Interface	Paging Options	Machine Options	Reporting Options	Network Options	Test Options	
<p>Machine Identifier</p> <div style="border: 1px solid black; width: 100px; height: 15px; margin-bottom: 5px;"></div>							
<div style="display: inline-block; border: 1px solid black; padding: 2px 10px; margin-right: 10px;">Save</div> <div style="border: 1px solid black; padding: 2px 10px;">Exit</div>							

FIG. 5D

548

Otoqram Configuration							
Input Screen	Paging Encoder Interface	Paging Options	Machine Options	Reporting Options	Network Options	Test Options	
Number of reports to print automatically at end of testing session				<div style="border: 1px solid black; width: 30px; text-align: center;">1</div>			
Minimum intensity to report				<div style="border: 1px solid black; width: 30px; text-align: center;">0</div>			
<div style="display: inline-block; border: 1px solid black; padding: 2px 10px; margin-right: 10px;">Save</div> <div style="border: 1px solid black; padding: 2px 10px;">Exit</div>							

FIG. 5E

554

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | **Paging Options** | Machine Options | Reporting Options | Network Options | Test Options

Web server root:  556

Save and Exit Exit

FIG. 5F

560

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | **Test Options**

Speech Reception Threshold | Survey | DP Otoacoustic Emissions | **Pure Tone Air & Bone Conduction** | Tympanometry | Acoustic Reflex | Speech Discrimination

Name:  568

	250	500	1K	2K	3K	4K	6K	8K	
Always	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="◀"/>
Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="◀"/>
As Needed	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="button" value="◀"/>

570

☐ Always mask bone 574

PTA is defined as average of:

- ☒ 2 best of 500Hz, 1kHz and 2kHz
- ☐ 500Hz + best of 1kHz or 2kHz
- ☐ 500Hz, 1kHz and 2kHz
- ☐ 500Hz, 1kHz, 2kHz, 3 or 4kHz

566

572

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5G

560

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

578 Name

Comm Port  ☐ Zodiac 901 ☐ GSI-38 ☒ Fluffy ☐ No Tymp Attached

580 Starting Pressure (daPa)  Ending Pressure (daPa)

576 Calibration Values

	Left	Right
0.5 cm3	<input type="text" value="0"/> Cal	<input type="text" value="-25.76"/> Cal
2.0 cm3	<input type="text" value="0"/> Cal	<input type="text" value="-21.21"/> Cal
4.0 cm3	<input type="text" value="0"/> Cal	<input type="text" value="-17.61"/> Cal

582

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5H

560

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

584 Name

Ipsilateral ☒ Contralateral ☐

500 Initial dB Level

1K dB Increment Size

2K Reflex Threshold (cm3)

4K

585

583

586

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5I

560

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Name: Discrim 588

Presentation Base Level: AI Boost: 0

Presentation Type: Closed

Maximum Presentations: 12

Min Presentation Level: 30

Max Presentation Level: 120 587

Word List (Open Set, English Only): W-22

589

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5J

560

**Otoqram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name: SRT 591

590

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5K



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560

**Otogram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name:  } 593

Survey Name:  } 592

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5L

560

**Otogram Configuration**

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name:  595

596 {

	Test	Response Floor	Noise Ceiling	L1 (db)
500	<input checked="" type="checkbox"/>	<input type="text" value="-5"/>	<input type="text" value="15"/>	<input type="text" value="60"/>
1K	<input checked="" type="checkbox"/>	<input type="text" value="-5"/>	<input type="text" value="0"/>	<input type="text" value="50"/>
2K	<input checked="" type="checkbox"/>	<input type="text" value="-5"/>	<input type="text" value="-10"/>	
4K	<input checked="" type="checkbox"/>	<input type="text" value="-5"/>	<input type="text" value="-15"/>	

594

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

FIG. 5M

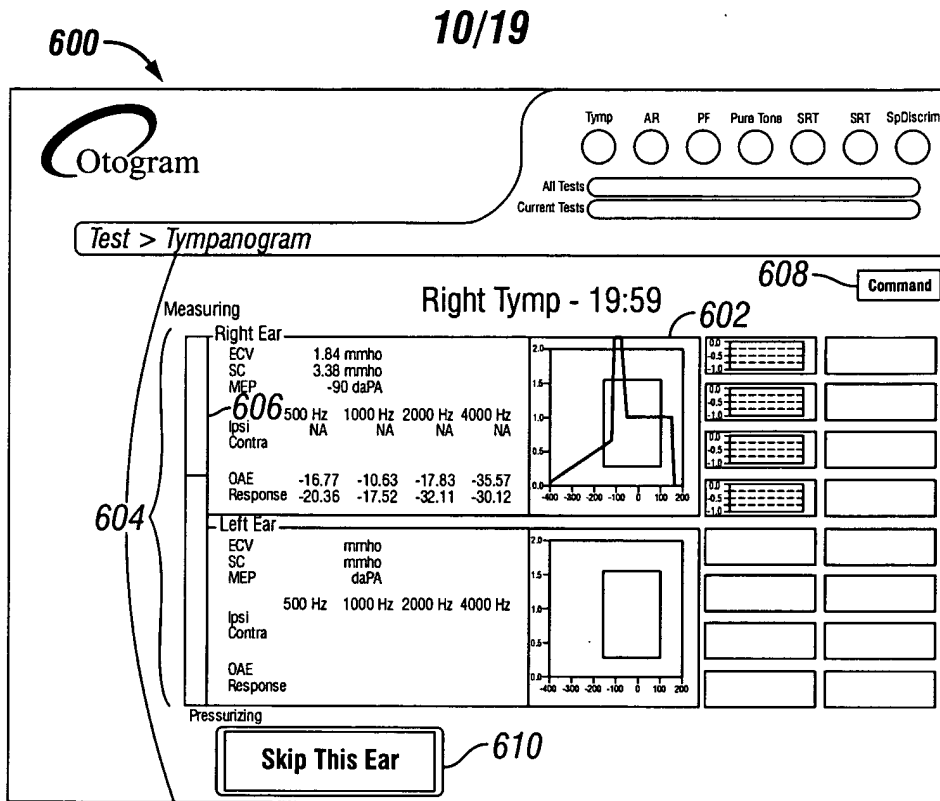


FIG. 6A

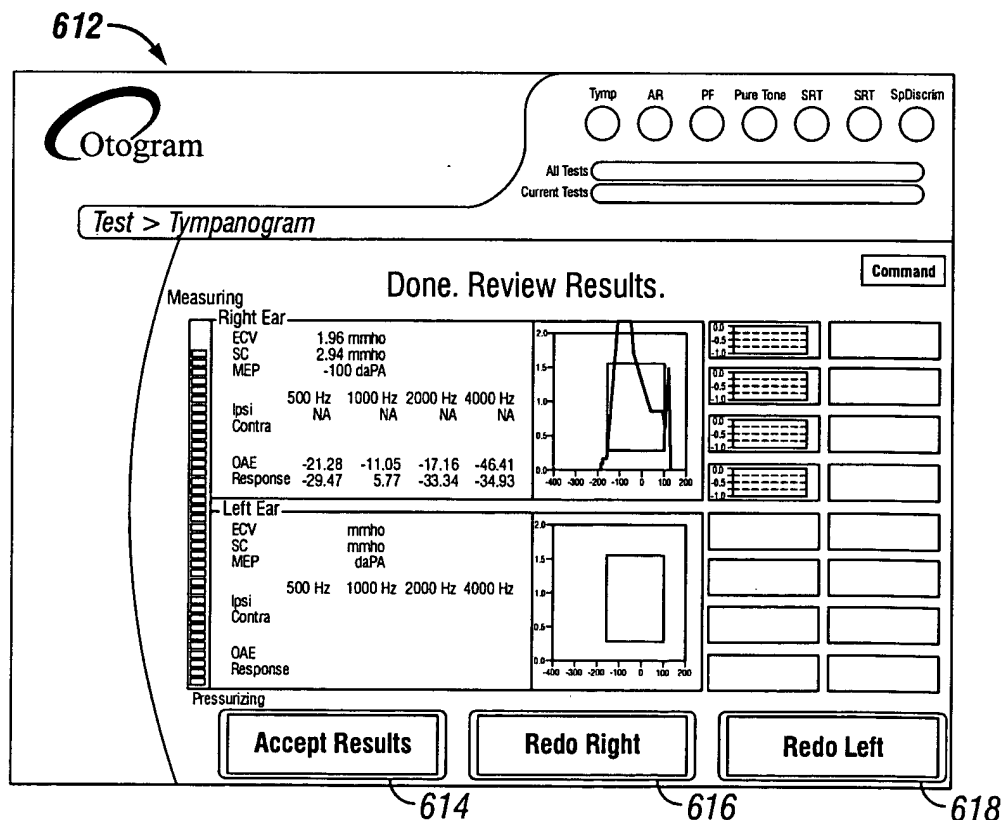


FIG. 6B

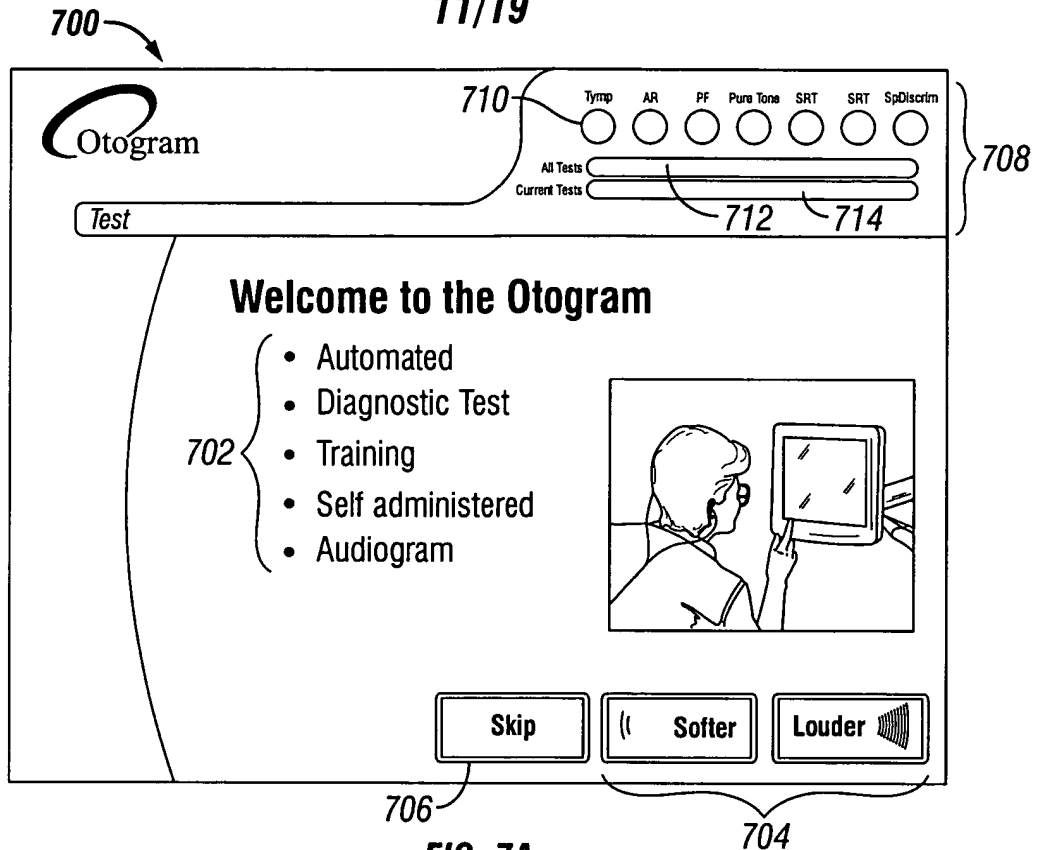


FIG. 7A

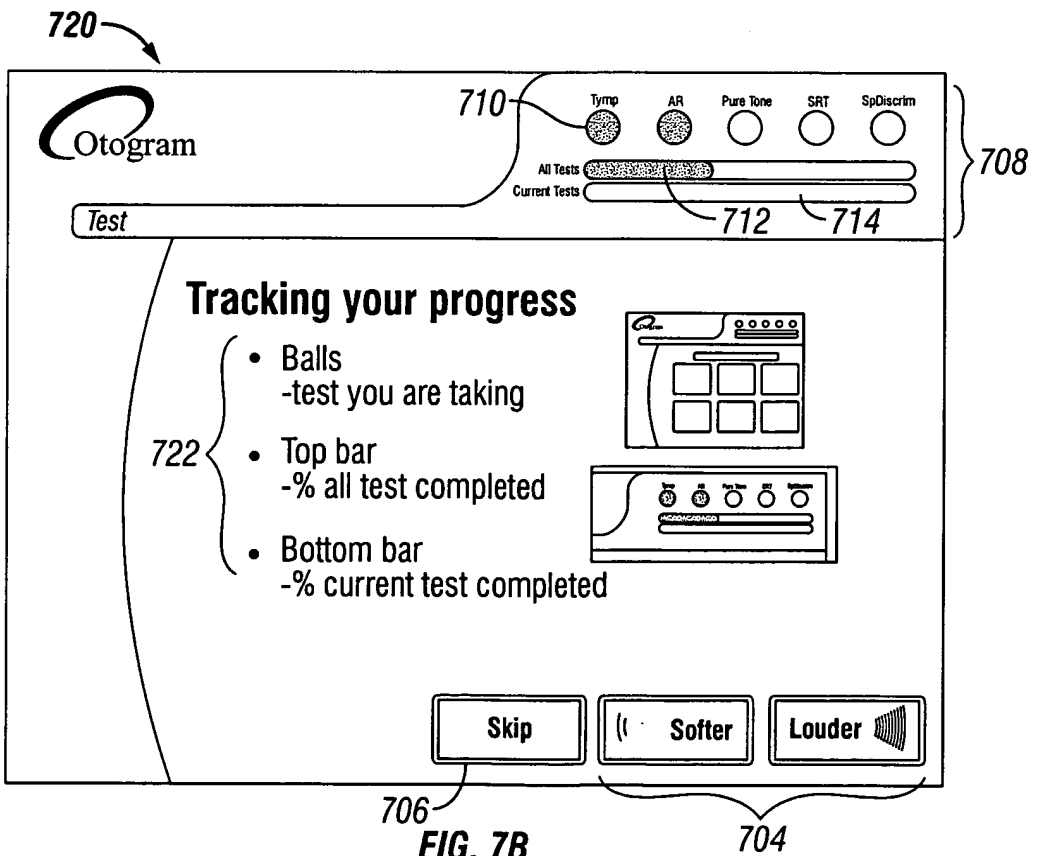


FIG. 7B

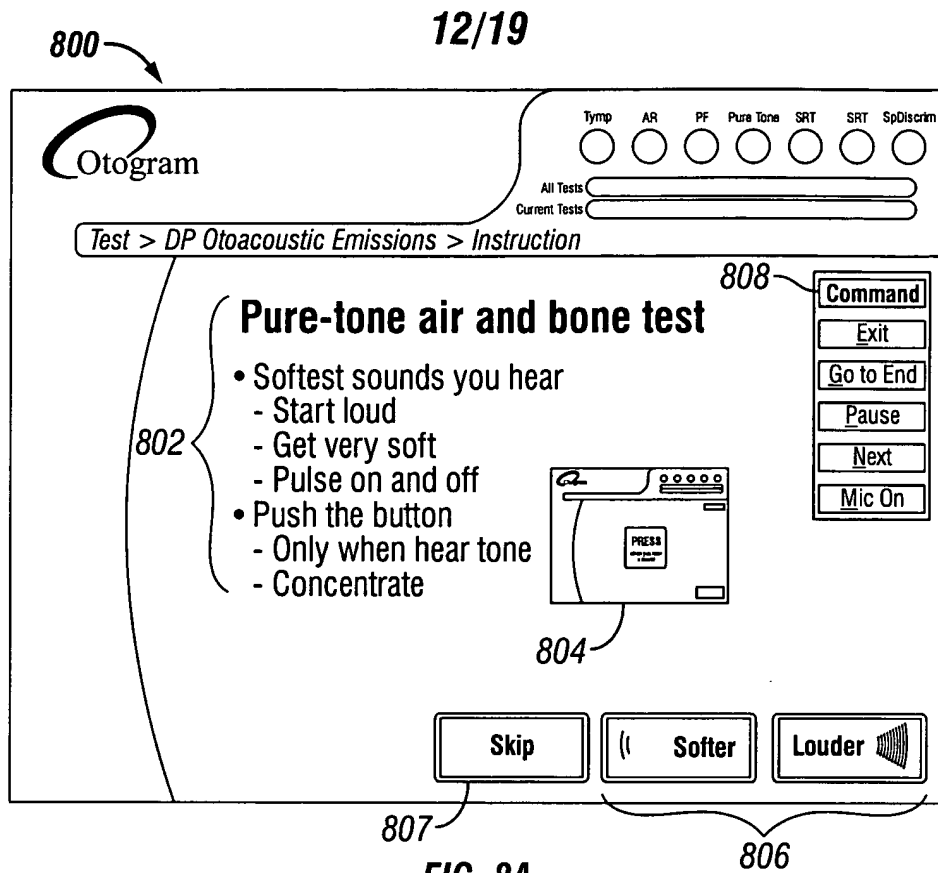


FIG. 8A

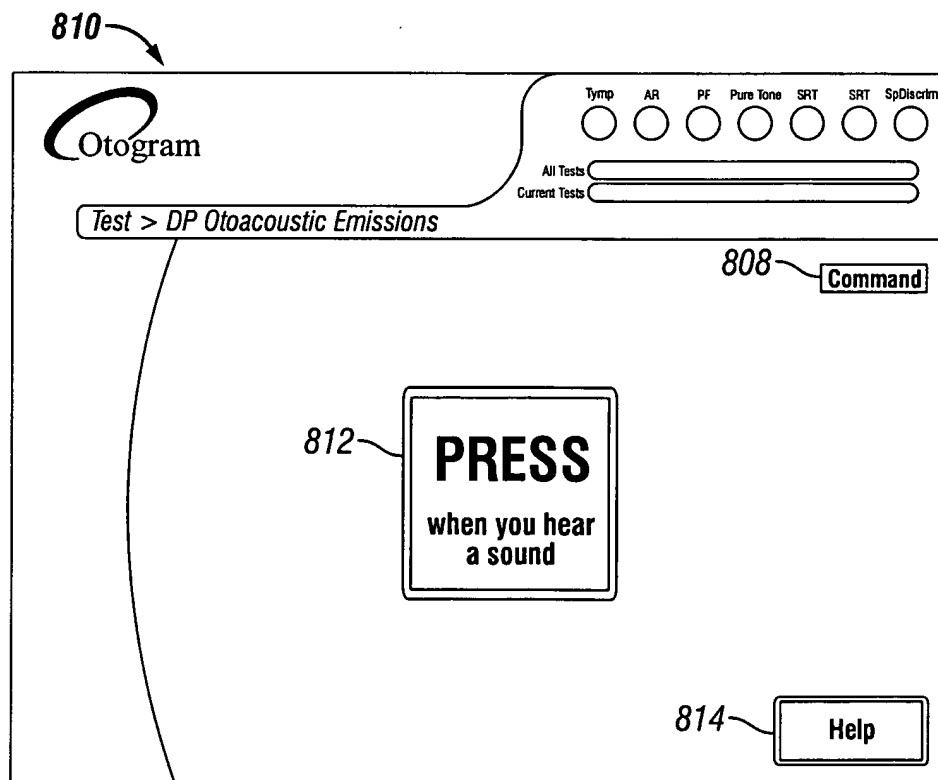
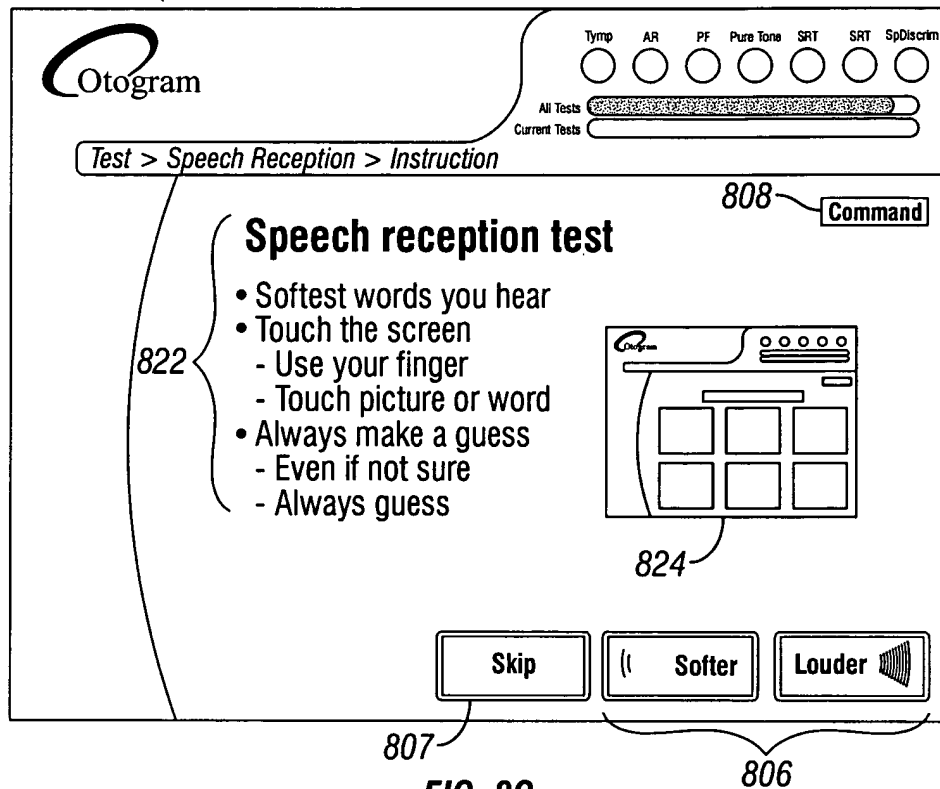


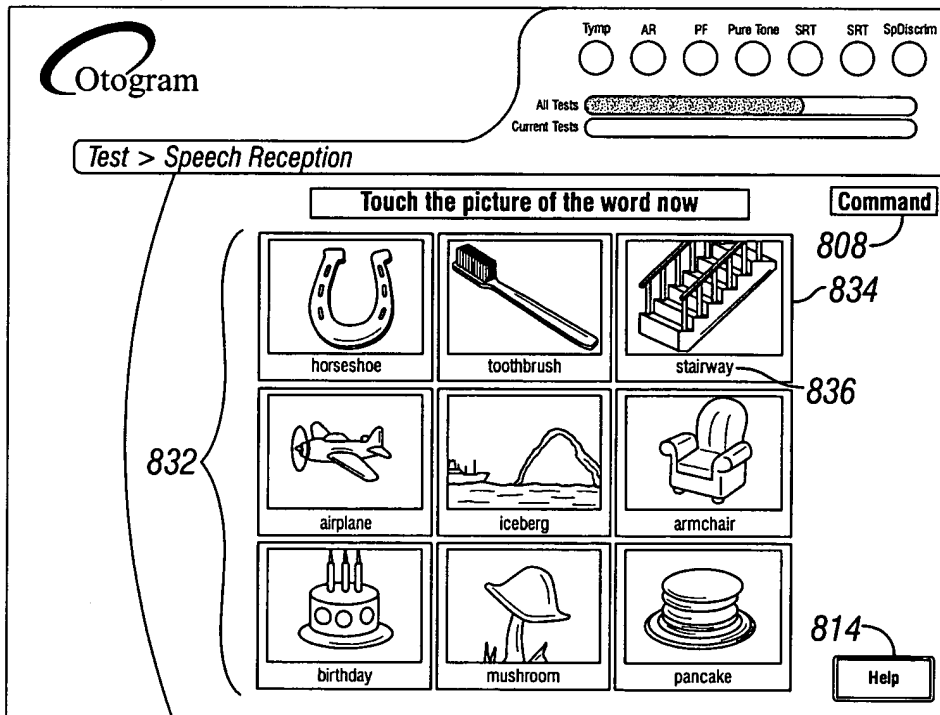
FIG. 8B

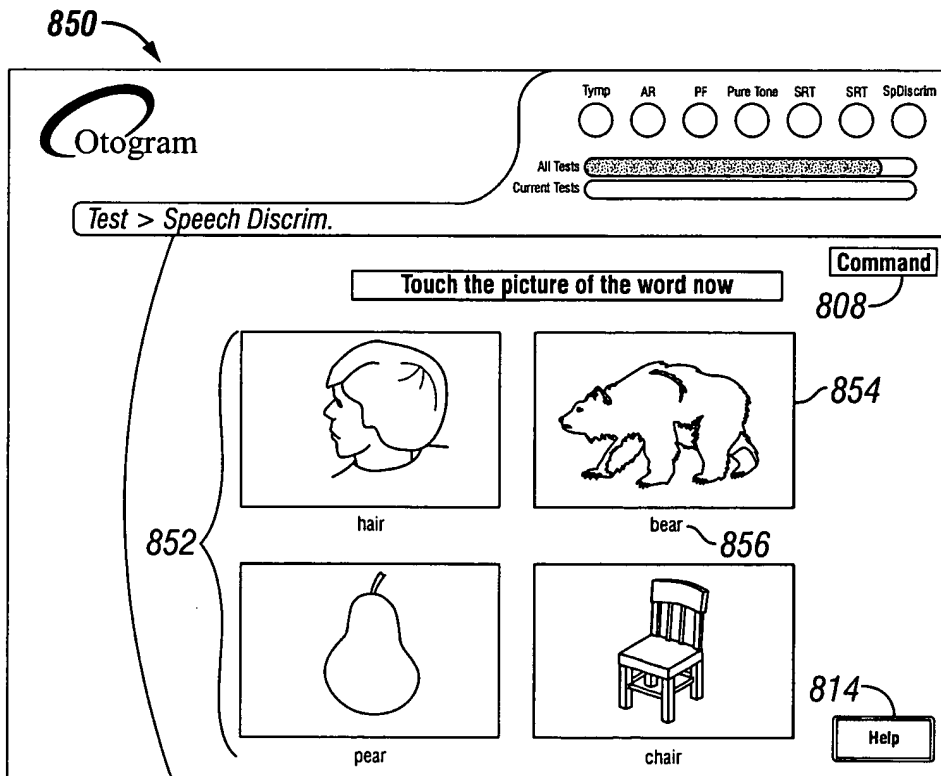
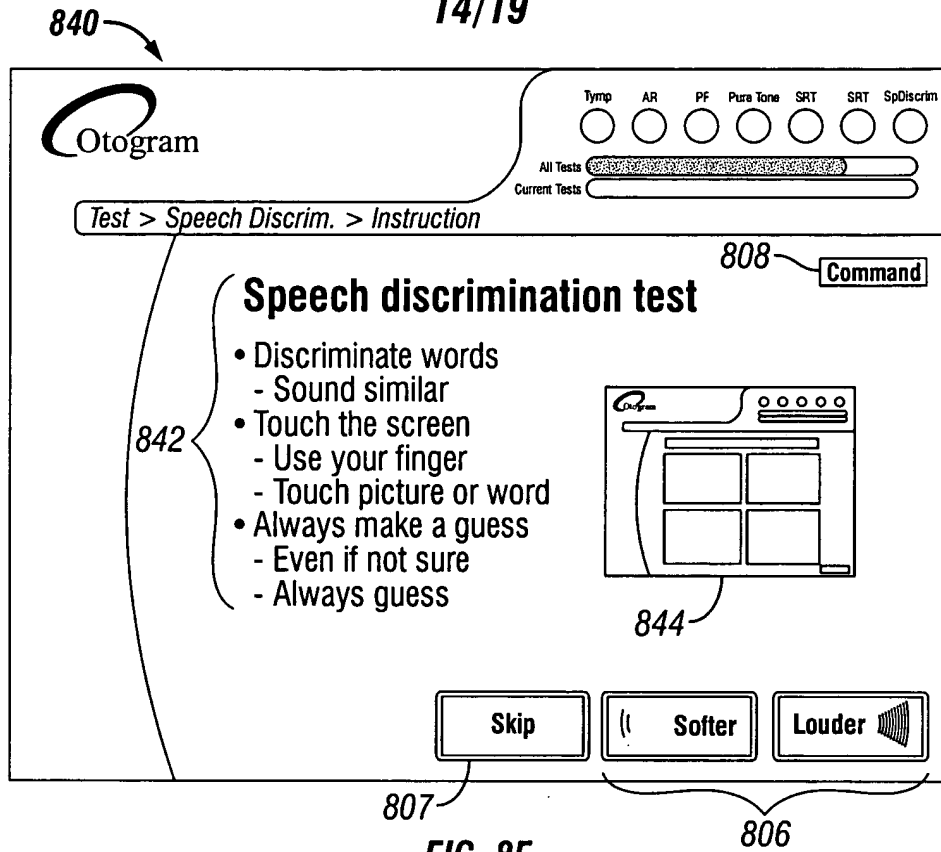
820

13/19



830





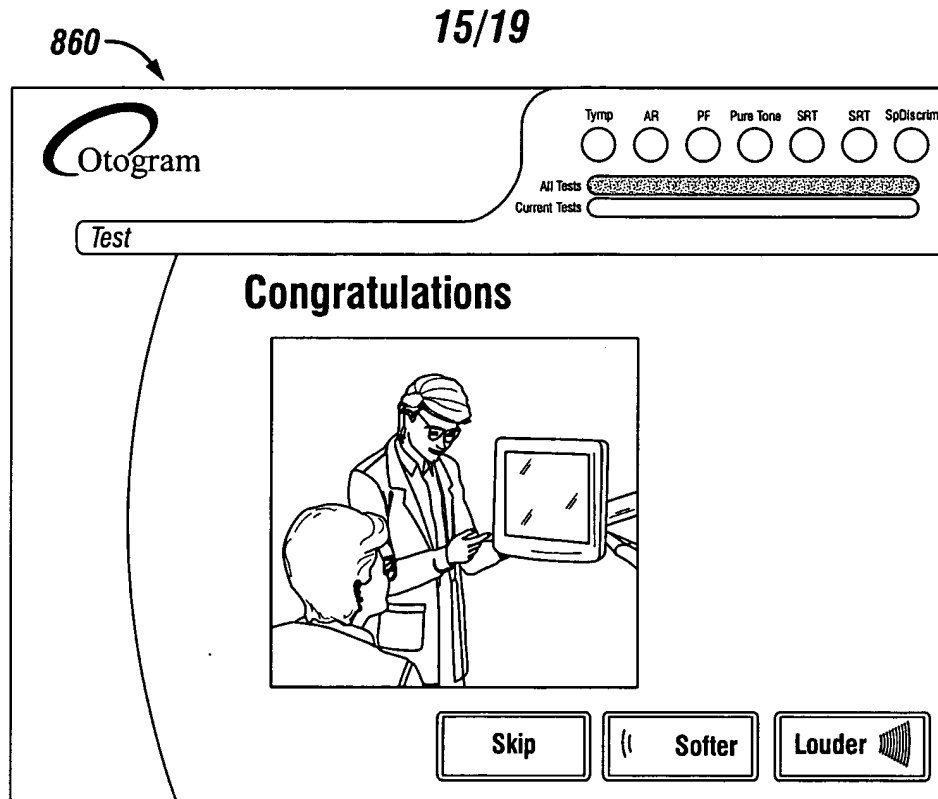


FIG. 8G

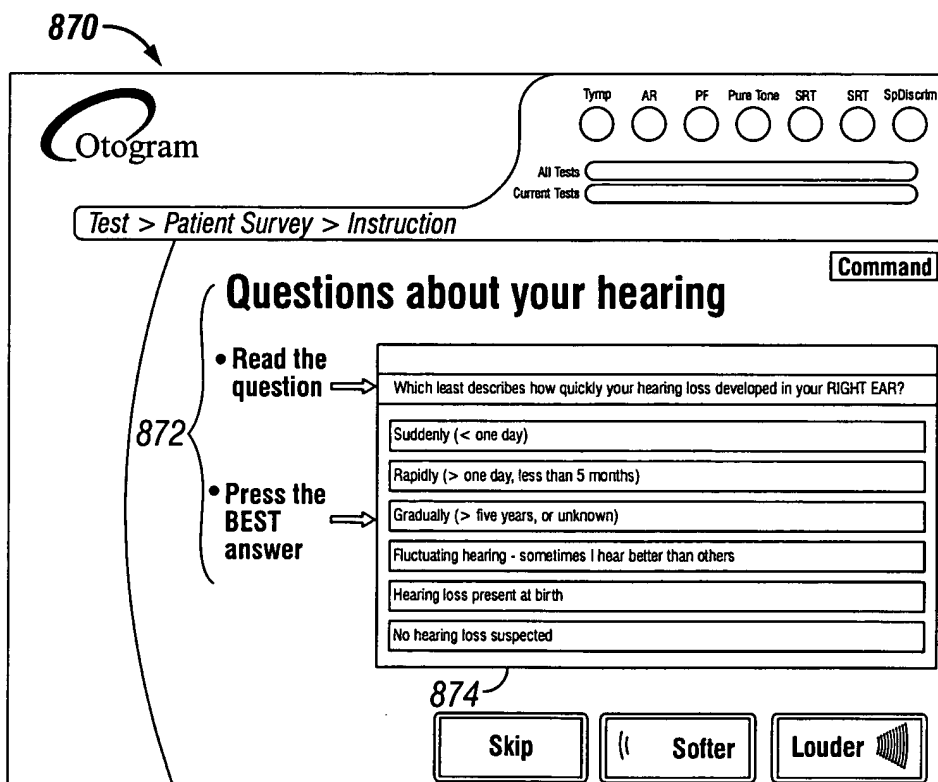


FIG. 8H

880

Otogram

Test > Patient Survey

882

884

Command

**Hearing Questionnaire**

Does a hearing problem cause you to use the phone less often than you would like?

Yes

Sometimes

No

Tymp AR PF Pure Tone SRT SRT SpDiscrim

All Tests

Current Tests

FIG. 8I

900

**The test administrator  
has been paged.**

**Please wait for the  
administrator to return.**

FIG. 9



**Otoqram**

Tymp ☐ AR ☐ PF ☐ Pure Tone ☐ SRT ☐ SRT ☐ SpDiscrim ☐

All Tests

Current Tests

**Report**

Redo Some Tests 1002

New Session 1004

View Report 1006

Print Billing 1008

Print Report 1010

FIG. 10A

**Otoqram**

Tymp ☒ AR ☒ Pure Tone ☐ SRT ☐ SpDiscrim ☐

All Tests

Change Report Style 1032 View Saved Report 1034 Save Report 1030

**Report**

Redo Some Tests 1002

New Session 1004

View Report 1006

Print Billing 1008

Print Report 1010

**1028**

Name: J. Q.  
Date: 09/14/2002  
Time: 15:28  
DOB: Age 45 years  
Sex: Male

Chart#: Profound Unilateral Loss  
Physician: Tympany  
Tester: Clinic  
Elapsed: TAR: PT:13.98 SRT:2.95 SD:1.41

**Right Air and Bone Conduction**

Frequency in Hertz (Hz)

1022

Hearing Level in Decibels (dB)

**Left Air and Bone Conduction**

Frequency in Hertz (Hz)

1024

**1026**

	250	500	1K	2K	3K	4K	6K	8K
Air	5	10	5	50	80	95	80	80
Bone	5	5	5	40	60	60	60	60
Gap	5	0	10	40	50	50	50	50
ABMax					40	50		
dBMax	37	32	75		85			

Speech Intelligibility

Symbols

FIG. 10B

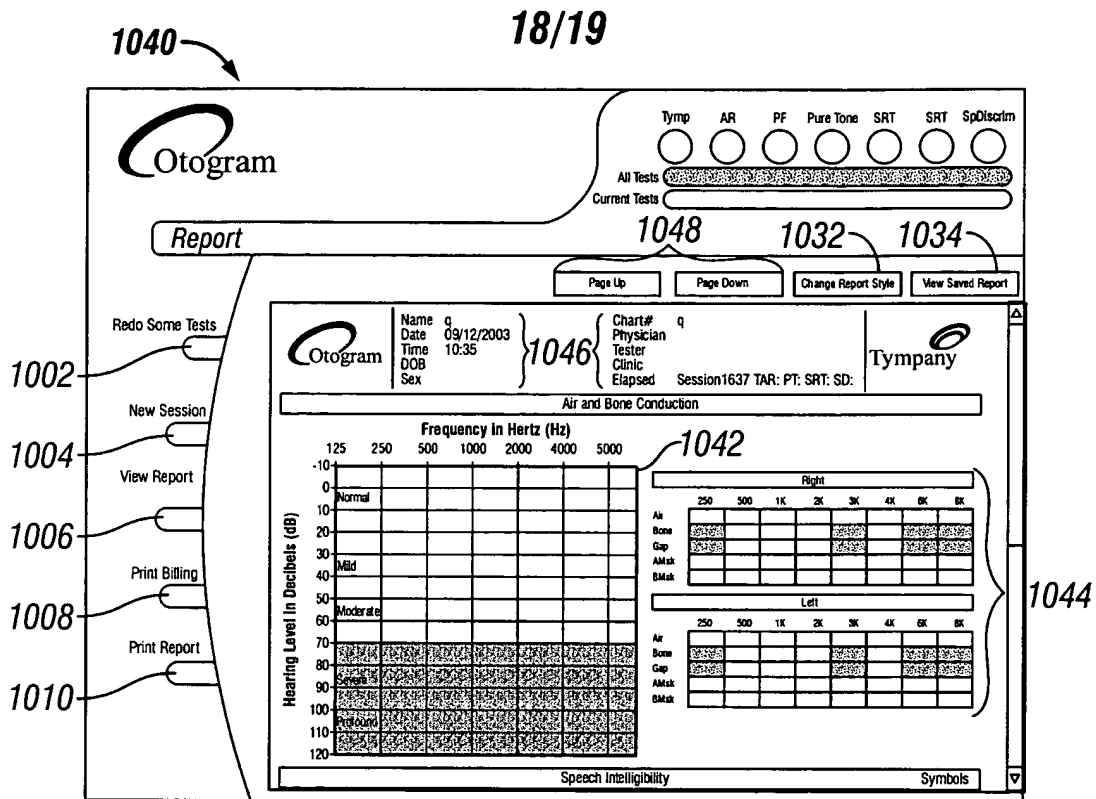


FIG. 10C

1050

Report Search

Sort By Clinic

Select By Date of Test

Criteria

1054 Display All Search Cancel

1052

FIG. 10D

